Honors Chemistry \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

February 5, 2010

***Daily Quiz***

Honor Pledge: \_\_\_\_\_\_\_\_\_ (please initial)

1. Based on its electron configuration and location on the periodic table, an atom of sulfur will most likely make \_\_\_\_\_\_\_\_ covalent bonds.

2. What factors contribute to the bond length in a molecule?

3. Draw a Lewis dot structure for the Br2 molecule.

H

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H – N – N – H H – N = N – H

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H

*molecule A molecule B*

Consider the two molecules above to answer questions 4 – 5.

4. In which molecule does the N – N bond have the greatest energy?

5. In which molecule is the N – N bond the longest?

6. Draw the Lewis dot structure for the AsH3 molecule.

7. Draw the Lewis dot structure for the CCl2O molecule. Carbon is the central atom.